

EXPRESS MAIL LABEL NO. EV314044234US

DATED: 28 JANUARY 2004

ATTORNEY DOCKET: RBUS 1310-1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of Inventor:

Frederick A. Ware et al.

Application No. _____

Filed: **28 January 2004 (herewith)**

Title: **Communication Channel
Calibration for Drift Conditions**

Group Art Unit: unknown

Examiner: unknown

CUSTOMER NO. 38342

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §1.56

Sir:

It is requested that the information identified in this statement be considered by the Examiner and made of record in the above-identified application. This statement is not intended to represent that a search has been made or that the information cited in the statement is, or is considered to be, material to patentability as defined in 37 C.F.R. 1.56.

Enclosed with this statement is a Form PTO-SB/08. The Examiner is requested to initial the form and return it to the undersigned in accordance with M.P.E.P. 609.

Also enclosed with this statement is a copy of each cited document as required by 37 C.F.R. 1.98. The exception to this, in accordance with the 05 August 2003 Official Gazette Notice in which the USPTO waives the requirement for submitting copies of U.S. Patent and Publications for cases filed after 30 June 2003, is that copies of U.S. Patent documents and copies of U.S. Patent publications are not being submitted.

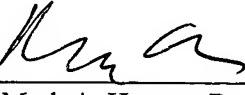
This statement should be considered under 37 C.F.R. 1.97(b) because it is being filed within three months of the filing date of an application other than a continued prosecution application under 37 C.F.R. 1.53(d).

Fee Authorization. The Commissioner is hereby authorized to charge underpayment of any additional fees or credit any overpayment associated with this communication to Deposit Account No. 50-0869 (RBUS 1310-1). A copy of this authorization is enclosed.

Respectfully submitted,

HAYNES BEFFEL & WOLFELD LLP

Date: 28 Jan 04

By: 

Mark A. Haynes, Reg. No. 30,846

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PTO/SB/08A (08-00)

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Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet

1

of

4

Complete If Known

Application Number	
Filing Date	28 January 2004 (Herewith)
First Named Inventor	Frederick A. Ware
Group Art Unit	
Examiner Name	

Attorney Docket Number RBUS 1310-1

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (If known)			
A1	4,384,354			Crawford et al.	05/17/1983	
A2	5,122,978			Merrill	06/16/1992	
A3	5,436,908			Fluker et al.	07/25/1995	
A4	5,859,881			Ferraiolo et al.	01/12/1999	
A5	6,047,346			Lau et al.	04/04/2000	
A6	6,219,384			Kliza et al.	04/17/2001	
A7	6,282,210			Rapport et al.	08/28/2001	
A8	6,359,931			Perino et al.	03/19/2002	
A9	6,396,329			Zerbe	05/28/2002	
A10	6,442,644			Gustavson et al.	08/27/2002	
A11	6,448,815			Talbot et al.	09/10/2002	
A12	6,463,392			Nygaard et al.	10/08/2002	
A13	6,469,555			Lau et al.	10/22/2002	
A14	6,473,439			Zerbe et al.	10/29/2002	
A15	6,510,503			Gillingham et al.	01/21/2003	
A16	6,539,072			Donnelly et al.	03/25/2003	
A17	6,556,934			Higashide	04/29/2003	
A18	6,643,787			Zerbe et al.	11/04/2003	
A19	2003/0026399			Carlson	02/06/2003	

FOREIGN PATENT DOCUMENTS

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		Office ³	Number ⁴	Kind Code ⁵ (If known)				
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¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Application Number	
				Filing Date	28 January 2004 (Herewith)
				First Named Inventor	Frederick A. Ware
				Group Art Unit	
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Sheet	2	of	4	Attorney Docket Number	RBUS 1310-1

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		Office ³	Number ⁴	Kind Code ⁵ (If known)				
	B1							
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Application Number	
Sheet	3	of	4	Filing Date	28 January 2004 (Herewith)
				First Named Inventor	Frederick A. Ware
				Group Art Unit	
				Examiner Name	
				Attorney Docket Number	RBUS 1310-1

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		T ²
	C1	PARIS, LLUIS ET AL, "WP 24.3 A 800MB/s 72Mb SDRAM with Digitally-Calibrated DLL," IEEE International Solid-State Circuits Conference (1999), 13 pages.		
	C2	NAKASE, YASUNOBU ET AL, "Source-Synchronization and Timing Vernier Techniques for 1.2-GB/s SDRAM Interface," IEEE Journal of Solid-State Circuits, Vol. 34, No. 4 (Apr. 1999), 494-501.		
	C3	GILLINGHAM, PETER, "SDRAM Architectural and Functional Overview," SDRAM Consortium (29 Aug 1997), 1-14.		
	C4	"Draft Standard for a High-Speed Memory Interface (SyncLink)", Draft 0.99 IEEE P1596.7-199X (1996), 56 pages		
	C5	GILLINGHAM, PETER, "SDRAM: High-Performance, Open-Standard Memory," IEEE (1997), 29-39		
	C6	SDRAM Inc., "400 Mb/s/pin SDRAM," Draft Advance (9 Jul 1998), 1-69.		
	C7	ZERBE, JARED ET AL., U.S. Patent Application No. 09/776,550 filed 2 February 2001, entitled "Method and Apparatus for Evaluating and Calibrating a Signaling System."		
	C8	ZERBE, JARED ET AL, U.S. Patent Application No. 09/976,170 filed 21 October 2001, entitled "Method and Apparatus for Evaluating and Optimizing a Signaling System."		
	C9	RAMBUS "Direct Rambus Short Channel Layout Guide, Version 0.95" (August 2001), 40 pages		
	C10	RAMBUS "Direct Rambus Long Channel Design Guide" (2000), 45 pages		
	C11	RAMBUS, INC. "RDRAM Direct Rambus Clock Generator" (April 2002), 22 pages		

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OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

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